## AMENDMENTS TO THE SPECIFICATION

Please amend Table 2 beginning on page 18 as follows:

Table 2: Polymorphism found in 3' untranslated region of mu-opiod receptor gene and linkage disequilibrium

TAA+	reported	major allele	minor allele	LD	TAA+	reported	major allele	minor allele	LD
886	А	G +1	Α	*	8386	A(13)	A(16)	A(13)	***
1360	T. I	T	· C	#- 19 #:- 19	9000	Ċ.	C b	T.	
1371	r T₽	THE	- C	*	9564	Α			
1670	Α	G	ΑÌ	*.	9669	G	Α	G	**
1709	G	G J	Α	4.7	9716	. bir	T #44	- A	
[[2007]] 2008	C	#A CAL	AND STATE OF	*	9839	T.		in ST <sup>a</sup> of the	*
[[2026]] 2025	G∦⊹	a Girale	Α		9994	- C	A A	CIA	*
2109	A	Ä	G	:	10083	C	ŅÆ O.♥	Α	
2274	Ä	A A	G €	4.	10223	A(4)	A(3)	A(4)	*
2287	G	A.	G	*	10247	A	WARREN !	A A	*
2395	G	MG	M.C.	(*)	10535	A	G		¥1.
2458	G	. € G	* C. T.		10704	G	G	A M	
2482	т.	ariska T. sa.	C		10752	Talk	G	it spit e	* *
2497	∜ G	G G	A		11100	2 C	T.		474
2656	G	G .	T T	*	11129	- C 11	A	- C	*
2714	C	A	STREET,		11132	CA(17)	CA(17)	CA(14)	*
2820	G	G .	TO THE V	*	11133	Α	A .	∵ G	8.50
2907	G	₽ G	TO E	#-74	11368	TCTC		* TCTC	+
3423		C (1941)		16.33	11411	Tiri	y T	Sr Chie	
4026	A	G.		4.40	11431	at T	C	T-	*.
4585	A(6)	A(5)	A(6)	1238 56 7	11449		TITC		*
4861	A	A.A.	. ∴ C		11541	G	G	A	*
5359	Α	4 A	" G	Taille	11602	Α	**** C ***	A	*
6074	A	Α	C C	74.7	11650	С	T	Part Par	
6886	COT	T	G G	*	11918	C -	* * e * !!	T. C. T.	*
6922	С	G	C	*	11956	A	_ C		
7075-7396	322 bp				12143	Α	Α	G	*
7427	С	С	T	*	12630	Α	G		
7483	Α			1 1	12681	In T	Table	С	*
7536	1	C	T	*	12831	B.T	× C. C.		
7589	Α	G	G	*	12834	G	C		
8116	C.	T	С	*	13236	T(15)	T(14)	T(15)	
8165	С	I	T		13971	G	T		
8281	G	Α	Α			a San Chil		The or the	10

## Please amend Table 4 beginning on page 22 as follows:

Table 4

Position	Name of gene polymorphism	
S'UTB	A-55806	gttosactgotsataccitagcaggaatcgaaacagtgaccocatggcat a/g ctaagagtcactgtactcttoacagacgtgcactoacagaagaaaaacac
	C-5342T	actaa agtagaatgottgtoccaaagaaasgogcatgttgoctgtttgag eAt tgtgaactaaacsactttttoogtggatoactattttatttaasg
7	A-53086	atgritgectgrittgageitgigaactaattaaceactititecgitggate a <b>/g</b> ctatititatitaaagaatgaetgagetggggggggggggg
	C-5236T	ot gaggooggggtggotoaggootgtaaloocagoaotttgggagg eAt tgaggoaggaagatgaogaggtaagagatogagaacatootggotaaca
2	6-50264	antog gyaggi tygagot typagogagot tygagot og act yoak too a <b>g/a</b> och tygg og angragagot og antog and ana ana ana ana an
	6-49364	
- 1	C-45048	taatiotioityotaatitoiaggoosoataosaoaggatataasaagoo e/a aseaacaaggataaattotitoatatytyttaatootataasocotot
) -i	T-26946	raaaatatot gotaatoatiitittoaaotgaattoaaafattalg oooat 11/g aatattoatatag taagataaaoaoagagagagtgagggagg
	A-2693C	aasakatatgotaatoatitittoaaotgoaitoaaatattatgoastt ako atattoatatattitaatatagaaaagaaagagagtgaggga
	T-2683C	okaakoattitioaacigaakoaaataitatgeacaitaataitoata 1/c atgittaatatagaaagaaagagagigagggagggggggg
	T-2402C	aaaaatotat agtattytaotgayotootoosaayoaaotataaattta 1/6 ayyagatgaaaoatatyattooocayyootaayaaayaayttiooytaat
	C-1609T	toconcat gaad taagdadaasaa gaatgaagga agadagattt dag off toa ata taagagaatt git tadattagtt dat ggaas aa tat tit aagg
more	1969-D	tytti otoattiotittioagaaaataaagga togot gitgi toocaaca 💅 gittgi aggaagaaaai tggagaaaaacitaitaacittiotitaga igit
	6-4907	tagggftiteatoaagooaatgtaftoootgooagailiftaaggagaaaaa 🗗 gogotggaaaaitgagtgaigtlagooootffootfafffftoaotgota
Exon 1	A118G	ococostococostatocostitatocosotitatocosotitatotatita aitto atoritatocasocostatocatoracocostocostatocatoracocos
Intron 1	1.VS1-64980G	aatgaaaaggoagaaaaattagooooaaaagagatgaaaotottoogtoo a/g toaooattgaototattgtgaaottatgaaaaaggtagttgagtaaatatg
·	_	gaadtatgaaaaggtagtgagaalatgaaggooatkgtggaatt a/g aaoacacacacacacacacacacacacacacacacacac
	1VS1-4908(AC)n	acitatgasaaaggiagitgaagaaatatgaaggooatgaigtggaattaa (🖘), atgotggattotaaaatgtgtoottootototoototottgatoagtt
.000	1VS1-64690A	ocagaggiaa ittaitiagtoiggottoaottaacacaaa taggicaaaa gyfa caatoacattikisaagtagtaa tagtiggagaaatgigigaaaa
	11/51-745916	० धव स्ववचट च्वव बहु १० घर व स्वास १० घव चव प्रवास स्वास १ १ १ ४ व १ ८ ० ६ ४ ० ० ० ० ० ० ० ० ० ० ० ० ० ० ० ० ०
	11/51-144566	ticitygaagt tooataaaatoactotaat gggtoaaaaatogat ggtto 11% oagaa gaaoacaatitititoaaaaa egaa aagea itgiaaattoattig
Intron 2	1148246318	tacaacaaaatacaggosaggtgagtgatgttacoagootgagggaagga g6/a ggttcaacagootgatatgtgatgatgtcataagoaaagooagtatttatg
9	IVS2+6518A	g/a ttittgitocotgaacgaaagottaatgtgatogaagtggaotgoaaaat
	11,52,466910	iffoosoaafffoittiategoottagatagototggtoaaggotaaaaat <b>g/o</b> aatgagoaaaatggogtaftaaoaoottatgaoataattaaatgtgot
Intron 3	IVS3+65807A	okotsattaotaitaitasaagoaotitoitgaoatittaatoaaaatago g/A ggtosagaagitaggagatgototgtaatitggittaaotgigaaotatat 25
· ·	1953+65953A	g/a agttaatttgggaagtaattgttteaatteaatgggaaaaaaaeteaa
i i	1V53+6113(GT)n	atoasaatgg of atfoittoag tiofacagii taa aa agaaaatgg too (gt) _ g ogt gf gaf af agg ca tg to icitii tgc af gfaf gaatt agagt aaat
	IVS3+A61516	
*****	1453+684496	tgatatatatoataacatattatatatatatatatatatata
	IV53+08497I	
al la	1.953+8761(32hp)n	atog taa ta tal ( <b>attatoatattalgacatatatoataatatat)</b> , atoa aa aag toa
1		
	1VS3-68804A	
3'UTR	TAA+6886A	
	T##+T1380C	
	TAR+T13710	cagocaagtcagatggccatgcotagaagctctccattttgaacttttg t/c cagoattgattaaaagaattaaattaacatgtgtggttgatgatgatgataca 33
	TA&+61670A	***************************************
	TAA+61709A	ascasasgocasastasgtttittagtgtttoottotgatgaagtttoat g/a tttgottgtaataatotooatttotoaaataittigttooataatagaca
	TAX+62071 TAX+C2008T	argotiticalgggotaggatggtitotocoaagagatgacaatagtatig e/t ittigotoatoaggotgititotoagoaatoattgittotgottaataoca
0 0 0	T##+62025#	ggaitystitotoooaagagaitgaoatagiatityotitityotoatoaggot g/a titotoagoaatoatigititotyoitaajaooagotootagiaogaatia
10.0	T####2109G	gothootagtaogaathatotkgoatkgitgagaaaothitkiottoaagt ark ggaootgaateiatottittoaacaaatktoatghygtgaacaagtitot
	***************************************	

Position Name of gene polymorphism		OE& ID NO
T444622874	laataataagutaatkotoaaogittitoattoaaaaooatitittaac <b>g/a</b> taaatitgotagaaooaoottooaattooaaggoaaggagaoattaoa	4
TAAAROOGE	ich nanch eer strang sterr februar at nanacht fear an	42
200000000000000000000000000000000000000	2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	CP -
I AR +62458U		3
T44+T24820	tt gootta aggat gagat tt ottoocaggit tyg ta toocagaaa igcagao tVo gragotatigggoggaagotitigti totti aootigateaot	#
TAR+62497A	at ttetteecaggitggtateecagaaatgeagaetgtagetatggggg g g/a aagetitgitteittaeetgateaettgetgtggaaatteiageitatig	45
T48+G2656T	trootet ttoottgosatoal tagaaaggaagaagaagaagaaagagaaagagactoe 🚮 otggagsacotggtgagtootaggacootgotatootatoosacagggo	<b>SP</b>
T46+C2714A	actygtyay tot aygacoctgotat cocaacaggget ytoaya efa ggagaactoctaaty tggecatt tgaacattgaacattgaaalaga	47
Тяя+62820Т	1,3	<b>8₽</b>
T##+62307T	aacigataacoattoacitigoaaatgitattattgaataagtotoacita 🌮 cicalittaatattacoosaaagatgotaacaaattotgittocoacattg	₩
TAR+T3423C	goossagosaootsagaalagaaottaguttaguttittosgottot t/c saotggoosaaaasaagttgtgtttgtaasattottgaggtosato	20
TAA+A4026G	aacaatattactgtgttotaagcgcttotgttactcgaaagggggtotg a/	51
T##+4585(4)n	ggtttgttttaagtaagooaotttootoootgoaagttooaoggagaag (a)_ ggaggaaactttttootgagaagoooaotaatoaoaoagtgaacaaaaggo	22
TAB+848810	ltagsaaaggaabaaggabaggelactecataggeagegtageec a <b>/e</b> agggetgetgetsgttggetaittitgtggttatttettgatgetaas	53
TAB+65359G	gtogototegetoaaoaoctotegaastettaaataataaagaoo a <b>/g</b> ttgaoaotgagatttaaggagaaaaaoagattgaoagtggaotaaag	54
TAB +86074C	gcaaggt aagaatcaagtagaaa gataa agggaaaagaa gaa aa a 🎸 gottactoat att aacoatt ctacoatt ggaattatt gocaaca cooct	55
T##+T6866G	gackagtaggasaatheaterteataitgicacatgeactgtaataggaa 1/6 gittägoasaaaaoetteeaggagggggttggtiteeaatattaeetae	28
TAA+C69226	go sa sas as ociticos gas asaggiggiticos ataitac tacas citic gottigos attigatitit gasagga cotas asag tigas acogo tatos	57
T9#+7075de1(322bp)	ta aa tytti tatti aagittyoo at aaggotagao attitti de I(3226°1) gat aaattoa agggita o aaa ta coa aa cggaaa tgaga taagtggta	82
T94+C7427T	kizocogict agabattitit kartaait to ada kiikit tadaaati adaaa a // kigaaatigaga taagu gatat aaadda gaagaagaaaa	29
T86+7483de1(A)	ligagataagtigitataasoodoagaagatataggagaagagaaaaaaaa del(a) gaggaaataagaagaooaotottttootaagagtotgggtaaaatigga	09
TAB+T7536C	lggaariaaagaaganaariotittiootaagagtotgggaaaattgaava 176 agocatattoaotgaacaaoatgagtgagottoattaatttaagoaaago	
T4A+47589G	costattoackgaacaacatgagtostostsaatttaagcacagcaa a/g actgetttaattaacaagaoca <u>gagagagggaggaggaga</u> actacatttgt	
TAR+C8116T	gtgacatattagacttottactttococaaataaaaagtgoctgotgotgg g/f goggtggotoaogoctgtaattocagoaotttgggaggoggggggg	63
T#A+C8165T	go go ggt gg ot no goot tytaatt ooa go act tit ggg ag goog a ggo ga gg gg ga oo aa aag stoag ga oo aa aa aa aa	84
TAR+G8281A		29
T46+8386(A)n	osagatogosagostigosatosagostigggosacagastigagstitgitoto (a), gitgoosacatgocsitgotsitgigocosasagtitootiosacacacasos	99
TAR+C9000T	itagagooagtoagaattooatotooaatatootgaotagoaoaagaaat e/t oataggttgattottgttotootgoatototgoaggtggoaaootgatt	29
TAA+A9564G	itgigig ittitoitaataaaoittiaoo oaottataa aagaataaaatga a <b>/g</b> ggiggagitaattotgao taogggattoottittooottittaa gaaga	88
T##+G9669#	toot tot aaotaaatot tatea taagoaaatot atgeaceaaat tattia 🕫/a taeaat teeteetaa eege gegeooat titatitigaageaa tgiteae	88
TAA+T8716A		70
TAA+T9839G	it gooos atgaatg tgoas atgoatat taaaatat tgggcaos tottitiaa t <b>/g</b> itottitititotoataat aggittggaaat tggggaat tggggga	
TAH+C9994A	iggitettotogaactagotegetttocoagagaoagoteggagaoteggag enda ataaagaoatoattgaggaaaaggotaoottgtaootoategagagetg	72
TAA+C10083A	oatygaay ayoty aagystotgataa atyggaaoty ooa ggstaataagot atgʻsofa tatttotga oataaattaa aaastagstattyttiottotagototgstit	73
TAA+10223(A)n	taat git aaati ggato tataa ao ataag too at tig gotot at tat gto (a) ■ gagaataggag tit taaut taturi gty tit tiattaat at titt gaagta	74
TAA+910247T	atasgtoaattiggototattaigtoaaaagaataggagtittaacit a/f tatotgigtittiattaatattigaagtaiaggaaootoai <u>ggigingca</u>	75
TAA+A10535G	gt at gty acagg ggotgoa tgoacogg tygtotyggaaggaacaggacagg a <b>dg</b> oagg <u>gag</u> ttottotatacaatagagaacagaacaatgttottotatacaa	92
TAA+610704A	aggogggooaggootggttttogggootgggootgagotgoatgtatttg g/a titttaottoottgttgtltttaotgaatatgaaaoaatataaaaoaatgt	77
TAA+T10752G	tegatittacitocitgitgitiittacigaatatgaaaoaatataaaacaa <b>i/G gig</b> aga <mark>gggictitototocitocaatgitoaaoatoatatatgag</mark>	78
TAR+C11100T	gotggtttggttgaagtttotottatoagtoaggoaotttgoattttaag <b>o/t</b> gtaotttaocaocgacaococooggoaoacaoacaoacaoaca	79
		60

osition Name of gene polymorphism	acuanbas:	SER ID NU
TAR+11132(CA)n	ggoaotttgoatttoagogtaotttaopaoogacaooctocooocoag (ca) aoatagtgaaatggacoogtgggaattatatgatagttgtaatoaaaata	-81
744+A111336	go so titigo sittita ag cytao titis oca oo ga sa so co co co co ca go $$ a/ $oldsymbol{s}$ ca sa ca aca aca aca aca aca aca aca ac	82
TAR+11368de1 (TCTC)	totygaagt aaacttaaaatgaaaattagaatti goitteaattafacta <b>de I(toto)</b> tatotaaatctaattigaaatitaaaitaitiigtototaoccaaacca	83
7A4T11411C	tatactatoctatoctaattisaattisaattisaattattistoto tko accaaacatosatticatssa titaattitettitititititii	84
198+T11431C	cttaatityaaatitaaaitatiitytototaoocaaaccatogaittea t/c.ggaaatytitaaatiitoitiitiitiitiitiityaiggayootaa	82
TAR+11449 ins (TTTC)	Tattitgtototaocoaacoatogatitoatggaaatgittaaaititto ins( <b>tito</b> ) tititittittittittitgaagototoaototgtogocoaggotggag	98
7A +611541A	agortgagttonagttgattonatittggattonattganactottgoatcoc $oldsymbol{arepsilon}_{oldsymbol{eta}}$ is gattonagoattottgattonagoatostgagtnaathagag	28
iA +A 11602C	attotockycitoagootockyattagoteggactacagkygooogoao ako acaockygotaattitittytattittagtagagatyggggattoagoaogt	88
TAR+C11650T	mosacaoct ggotaaitititgiaititigataa agaitggggitteacea. e/f. gitagcoaggaiggittegaoctegigaoctegigatetgcotgootegg	88
7AA+C11918T	at toccasioaatitsaitaggaatitaggaastaottagfatatatit $e t \epsilon$ octifatataotaatiga atatocatagaaaggoattagtaocataata	90
AA+A11956C	ag ta taita at footit ta ta tactaat igtata too at ataaaagoatt a <b>fo</b> gta oo attata igaa ag aata igoo attoo ataaaaatata to ta coa	91
788 +812143G	gg aattaaagaaaaat gootg tiitoactaagtoatoottoooctggea a <b>/g</b> iaoalitootgaacitti acatactaaatagooagtaa gaaaa igtaa	92
9A+A12630G	acattitaanoagaotootgoooaoaaaotattitoototooaggaata a <b>/g</b> gaatggoaaotgaattgitoottotttaitotalagottiaagtoaaaoo	93
#A+T12681C	gaategeaactgaartgtroottottatrototatagetttaagteaaece t🖊 aacataageaateaaecetteoaeceattgteetetttetagetgettat	94
ÅA+T12831C	tt gggggtgraaa taaaaga tagaccctg ctg ct ctg cacgtagatt cag t/c ttg ta tgccaggg tg acatt tta at tta oagtagt coagacac ctaaca	382
AA+612834C	lgggtgaaataaaagatagaoootgotgotgoogtagatteagtt <b>g/c</b> italgooagggtgaeatttaatttaeagatagtooagaeacotaaaaagga	96
AA+13236(T)n	caacattgttttootittgatggtotgggagtttittctataagttittigg (t), ototicaltagtggitagttooatoatgictgtitactattgaaaa	97
T&&+T129716	litgaaata takkoako taaatoo ad katakto tao tiitiittaaaaa 1 <b>1%</b> kkito tiga kiitii ago aggaaaata tiigaaagaas aa aaagagiiti	8

\*1 322 bp de letron
Hittittittittittittittigagaoogag totog cictg tog coog gotggag tacagtgg og gatotog goto
actg caage toc gootecooggg ticacgecatte toctg cotoageotecoog gotgggag tagetggg cotaggogoog oa
taog cocggotaatittitgtatittitagtagagaoggggtitoaccgittitag cooggagatgite cigaict cotgaoot
cgtgatoog cocgooteggooteccaaagigotgggattaacagtggtigagooogogoogogoogggootgaaaatittit

Please amend Table 6 beginning on page 29 as follows:

Table 6: Linkage disequilibrium among mu-opiod receptor gene polymorphisms in normal subjects

			4.		D'					
Locus	A118G	IVS2 +G691C	IVS3* +G5807A	+G5953A	IVS3. +A6151G	IVS3 +A8449G	IVS3. +C8497T	TAA +A2109G	TAA +A2274G	TAA +G2287A
A118G		0.795	0.704	0.626	0.866	0.884	0.633	0.875	0.458	0.890
IVS2 +G691C	0.125		1.000	0.714	0.746	<u>0.795</u>	<u>0.775</u>	0.772	0.672	0.795
IVS3 +G5807A	0.453	0.134		<u>0.921</u>	0.849	0.883	<u>0.895</u>	0.868	0.535	<u>0.883</u>
IVS3 +G5953A	0.052	0.341	0.102		0.023	0.009	<u>1.000</u>	0.034	0.742	0.009
/IVS3 +A6151G	0.054	0.201	0.047	0.000		[[1.000]] 1.000	<u>1.000</u>	1.000	<u>1.000</u> .	1.000
IVS3 +A8449G	0.069	0.284	0.063	0.000	.[[0.001]] 		1.000	1.000	1.000	0.967
IVS3 +C8497T	0.159	0.062	0.291	0.069	0.037	0.046		<u>1.000</u>	0.763	1.000
**TAA +A2109G	0.061	0.241	0.055	0.001	0.892	0.901	0.042		1.000	1.000
TAA +A2274G	0.024	0.266	0.030	0.484	0.011	0.014	0.035	0.014		<u>1.000</u>
TAA +G2287A	0.070	0.284	0.063	0.000	0.800	0.934	0.046	0.989	0.014	